

## Title (en)

CONTAINER HANDLING PLANT AND METHOD FOR A CONTAINER HANDLING PLANT WITH SIGNALS FOR PLANNED STATES

## Title (de)

BEHÄLTERBEHANDLUNGSANLAGE UND VERFAHREN FÜR BEHÄLTERBEHANDLUNGSANLAGE MIT SIGNALEN FÜR GEPLANTE ZUSTÄNDE

## Title (fr)

INSTALLATION DE TRAITEMENT DE RÉCIPIENTS ET PROCÉDÉ CONCERNANT UNE INSTALLATION DE TRAITEMENT DE RÉCIPIENTS AU MOYEN DE SIGNAUX RELATIFS À DES ÉTATS PRÉVUS

## Publication

**EP 3504150 B1 20221026 (DE)**

## Application

**EP 17740639 A 20170629**

## Priority

- DE 102016115694 A 20160824
- EP 2017066231 W 20170629

## Abstract (en)

[origin: WO2018036692A1] A container handling plant (1; 2) and a method for a container handling plant (1; 2) are shown. The container handling plant (1; 2) comprises at least one container handling machine (10, 20, 30, 40) for handling containers (5), wherein at least one container handling machine (10, 30, 40) has a type preselection memory (11, 31, 41) in which it is possible to preselect different types (111, 112; 311, 312, 313; 411, 412) for handling to be carried out by the container handling machine (10, 30, 40), at least one output device (15, 35, 45, 16, 36, 46) which is arranged on the at least one container handling machine (10, 30, 40) and is intended to output an audio signal (TS1, TS2, TS3) and/or an optical signal (OS1, OS2, OS3), and a control device (60) which is configured to control the at least one output device (15, 35, 45, 16, 36, 46) in such a manner that the output device acoustically outputs a predetermined audio signal (TS1, TS2, TS3) comprising tone sequences with at least two different tones and/or optically outputs an optical signal (OS1, OS2, OS3) if, on account of the type (111, 112; 311, 312, 313; 411, 412) preselected in the type preselection memory (11, 31, 41), a change of a type (111, 112; 311, 312, 313; 411, 412) or refilling for the preselected type (111, 112; 311, 312, 313; 411, 412) is imminent in the future on the container handling machine (10, 20, 30, 40) after expiry of a predetermined period.

## IPC 8 full level

**B67C 3/00** (2006.01); **B67C 3/22** (2006.01); **B67C 7/00** (2006.01); **G05B 19/418** (2006.01); **G06Q 10/00** (2012.01); **B65B 3/00** (2006.01); **B65B 19/02** (2006.01); **B65B 21/00** (2006.01); **B65B 57/18** (2006.01); **B65B 59/00** (2006.01); **B65B 65/00** (2006.01)

## CPC (source: EP US)

**B65B 57/18** (2013.01 - EP US); **B65B 59/001** (2019.04 - EP US); **B65B 59/003** (2019.04 - EP US); **B65B 65/003** (2013.01 - EP US); **B67C 3/007** (2013.01 - EP US); **B67C 7/00** (2013.01 - EP US); **G06Q 10/00** (2013.01 - EP US); **B65B 3/00** (2013.01 - EP US); **B65B 21/00** (2013.01 - EP US); **B67C 2003/227** (2013.01 - EP US); **G05B 19/41865** (2013.01 - EP US); **G06Q 10/20** (2013.01 - EP US); **Y02P 90/02** (2015.11 - EP US)

## Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

## DOCDB simple family (publication)

**DE 102016115694 A1 20180301**; CN 108602659 A 20180928; CN 108602659 B 20210730; EP 3504150 A1 20190703; EP 3504150 B1 20221026; US 10981685 B2 20210420; US 2019248529 A1 20190815; WO 2018036692 A1 20180301

## DOCDB simple family (application)

**DE 102016115694 A 20160824**; CN 201780006161 A 20170629; EP 17740639 A 20170629; EP 2017066231 W 20170629; US 201716310482 A 20170629